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- (71) Applicant (for all designated States except US): **UNIVERSITY OF LAUSANNE [CH/CH]; Rue de Bugnon 21, CH-1005 Lausanne (CH).**
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BONNY, Christophe [CH/CH]; 5, rue du Docteur Yersin, CH-1110 Morges (CH).**
- (74) Agent: **KILIARIDIS, Constantin; Bugnion S.A., Case postale 375, CH-1211 Genève 12 (CH).**
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(54) Title: **CELL-PERMEABLE PEPTIDE INHIBITORS OF THE JNK SIGNAL TRANSDUCTION PATHWAY**

	S	V	S	V	G	M	K	P	S	P	R	P	26	(SEQ ID NO: 7)
	S	V	S	V	G	K	N	P	S	P	R	H	2	(SEQ ID NO: 8)
	T	Q	P	M	M	A	P	P	S	P	R	Q	1	(SEQ ID NO: 9)
	L	D	S	L	C	H	P	Q	S	P	R	P	1	(SEQ ID NO: 10)
		H	P	F	L	V	S	S	P	R	P		1	(SEQ ID NO: 11)
				G	Q	P	F	F	S	P	F	S	1	(SEQ ID NO: 12)
	P	P	S	N	L	I	P	P	T	L	R		1	(SEQ ID NO: 13)
						S	P	P	S	N	L		1	(SEQ ID NO: 14)
	F	N	P	W	S	S	K	P	S	L	L		1	(SEQ ID NO: 15)
	N	A	S	V	G	N	D	H	S	H	S	H	1	(SEQ ID NO: 16)
		E	H	M	A	L	T	Y	P	F	R	P	1	(SEQ ID NO: 17)
Consensus	S	x	S _P	V	G _L	x	P	P	S	P	R	P	37	(SEQ ID NO: 2)
αSH3	S	V	S	V	G	M	P	P	S	P	R	P		(SEQ ID NO: 1)
Consensus SH3						P	X	X	P					(SEQ ID NO: 35)

(57) **Abstract:** The invention provides cell-permeable peptides that selectively block the branch of the JNK signaling pathway controlled by the islet-brain (IB) proteins. The provided cell-permeable peptides block the binding of intermediate kinases in the c-Jun amino terminal kinase (JNK) signaling pathway, thereby decreasing the downstream effects of c-Jun amino terminal kinase (JNK).